

LISTING OF THE CLAIMS:

Claims 1-3 (Canceled)

Claim 4 (Currently Amended): A method for detecting at least one halogen compound,
~~compounds,~~ which comprises bringing a detector agent for detecting a halogen compound, which
comprises curcumin as a discoloring component, ~~as claimed in claim 1~~ into contact with a gas
to be detected that may contain a halogen compound, ~~compounds,~~ as said detector agent is
disposed ~~on~~ in a position where it can be visually observed, and wherein the halogen compound
to be detected is selected from the group consisting of SiH₂Cl₂, HF, F₂, HBr, ClF₃, TiCl₄, BCl₃,
HI and mixtures thereof from the outside.

Claim 5 (Currently Amended): A method for detecting at least one halogen compound,
~~compounds,~~ which comprises visually observing ~~from the outside~~ a detector agent for detecting
a halogen compound, which comprises curcumin as a discoloring component, wherein the
detector agent is as claimed in claim 1, disposed on the an upper layer of a solid treatment agent
for removing or decomposing a halogen compound, ~~compounds,~~ as a gas to be treated is caused
~~for treatment~~ to flow from ~~the~~ a bottom side of a container ~~filled with~~ containing said solid
treatment agent, whereby a halogen compound is ~~compounds are~~ detected to judge the
deterioration of said solid treatment agent, and wherein the halogen compound to be detected is
selected from the group consisting of SiH₂Cl₂, HF, F₂, HBr, ClF₃, TiCl₄, BCl₃, HI and mixtures
thereof.

Claim 6 (Canceled)

Claim 7 (Currently Amended): A method for detecting at least one halogen compound,
~~compounds,~~ which comprises bringing a detector agent for detecting a halogen compound, which
comprises Bromocresol Green as a discoloring component ~~as claimed in claim 2,~~ into contact
with a gas to be detected that ~~may contain~~ contains a halogen compound, ~~compounds,~~ as said
detector agent is disposed ~~on~~ in a position where it can be visually observed ~~from the outside.~~

Claim 8 (Currently Amended): A method for detecting at least one halogen compound,
~~compounds,~~ which comprises bringing a detector agent for detecting a halogen compound, which
comprises curcumin as a discoloring component, wherein said discoloring component is
supported on granular activated alumina, ~~as claimed in claim 3,~~ into contact with a gas to be
detected that may contain a halogen compound, ~~compounds,~~ as said detector agent is disposed
~~on~~ in a position where it can be visually observed ~~from the outside.~~

Claim 9 (Currently Amended): A method for detecting at least one halogen compound,
~~compounds,~~ which comprises visually observing ~~from the outside~~ a detector agent for detecting
a halogen compound which comprises Bromocresol Green as a discoloring component, wherein
the detector agent is ~~as claimed in claim 2,~~ disposed on ~~the~~ an upper layer of a solid treatment
agent for removing or decomposing a halogen compound, ~~compounds,~~ as a gas to be treated
which contains a halogen compound is caused ~~for treatment~~ to flow from ~~the~~ a bottom side of

a container ~~filled with~~ containing said solid treatment agent, whereby a halogen compound is
~~compounds are~~ detected to judge the deterioration of said solid treatment agent.

Claim 10 (Currently Amended): A method for detecting at least one halogen compound,
~~compounds,~~ which comprises visually observing ~~from the outside~~ a detector agent for detecting
a halogen compound, which comprises curcumin as a discoloring component, wherein said
discoloring component is supported on granular activated alumina, wherein the detector agent
is as claimed in claim 3, disposed on ~~the~~ an upper layer of a solid treatment agent for removing
or decomposing a halogen compound, ~~compounds,~~ as a gas to be treated is caused ~~for treatment~~
to flow from ~~the~~ a bottom side of a container ~~filled with~~ containing said solid treatment agent,
whereby a halogen compound is ~~compounds are~~ detected to judge the deterioration of said solid
treatment agent.

Claim 11 (New): A method for monitoring a solid treatment agent for removing or
decomposing at least one halogen compound present in a gas, comprising:

introducing a gas to be treated which contains a halogen compound to a solid treatment
agent for removing or decomposing the halogen compound;

introducing the gas flowing from the solid treatment agent to a detector agent for
detecting the halogen compound, wherein the detector agent comprises Bromocresol Green as
a discoloring component; and

visually observing the detector agent for discoloration.

Claim 12 (New): The method of claim 11, wherein contact of the halogen compound with the detector agent alone is sufficient to cause discoloration of the discoloring component.

Claim 13 (New): The method of claim 7, wherein the halogen compound to be detected is selected from the group consisting of SiH_2Cl_2 , HF, Cl_2 , BCl_3 , SiHCl_3 , BF_3 , SiF_4 , SiCl_4 , WF_6 and mixtures thereof.

Claim 14 (New): The method of claim 8, wherein the halogen compound to be detected is selected from the group consisting of SiH_2Cl_2 , HF, F_2 , HBr, Cl_2 , ClF_3 , TiCl_4 , BCl_3 , HI and mixtures thereof.

Claim 15 (New): The method of claim 9, wherein the halogen compound to be detected is selected from the group consisting of SiH_2Cl_2 , HF, Cl_2 , BCl_3 , SiHCl_3 , BF_3 , SiF_4 , SiCl_4 , WF_6 and mixtures thereof.

Claim 16 (New): The method of claim 10, wherein the halogen compound to be detected is selected from the group consisting of SiH_2Cl_2 , HF, F_2 , HBr, Cl_2 , ClF_3 , TiCl_4 , BCl_3 , HI and mixtures thereof.

Claim 17 (New): The method of claim 11, wherein the halogen compound to be detected is selected from the group consisting of SiH_2Cl_2 , HF, Cl_2 , BCl_3 , SiHCl_3 , BF_3 , SiF_4 , SiCl_4 , WF_6 and mixtures thereof.